

**Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation  
« HORIZON EUROPE »**

**Climat, Mobilité, Energie**

**Destination - Sciences climatiques et réponses pour la transformation vers une neutralité climatique**

<b>Titre</b>	<b>Type</b>	<b>Budget (M€)</b>	<b>Date d'ouverture</b>	<b>Date limite</b>
<b>Sciences climatiques et réponses 2023</b>				
<a href="#">HORIZON-CL5-2023-D1-01-01: Further climate knowledge through advanced science and technologies for analysing Earth observation and Earth system model data</a>	RIA	16	13-dec-22	18-avr-23
<a href="#">HORIZON-CL5-2023-D1-01-02: Climate-related tipping points</a>	RIA	14		
<a href="#">HORIZON-CL5-2023-D1-01-03: Climate impacts of a hydrogen economy</a>	RIA	8		
<a href="#">HORIZON-CL5-2023-D1-01-04: Improved knowledge in cloud-aerosol interaction</a>	RIA	16		
<a href="#">HORIZON-CL5-2023-D1-01-05: Science for successful, high-integrity voluntary climate initiatives</a>	RIA	5,5		
<a href="#">HORIZON-CL5-2023-D1-01-06: Broadening the range of policy options in transition pathway analysis</a>	RIA	10		
<a href="#">HORIZON-CL5-2023-D1-01-07: Modelling for local resilience - Developments in support of local adaptation assessments and plans</a>	RIA	12		
<a href="#">HORIZON-CL5-2023-D1-01-08: Solar Radiation Modification: governance of research</a>	CSA	3		
<a href="#">HORIZON-CL5-2023-D1-01-09: Behavioural change and governance for systemic transformations towards climate resilience</a>	RIA	8		
<a href="#">HORIZON-CL5-2023-D1-01-10: Improving the evidence base regarding the impact of sustainability and climate change education and related learning outcomes</a>	RIA	5		
<a href="#">HORIZON-CL5-2023-D1-01-11: Needs-based adaptation to climate change in Africa</a>	RIA	10		
<b>Sciences climatiques et réponses 2023</b>				
<a href="#">HORIZON-CL5-2023-D1-02-01: EU-China international cooperation on data and model development for pathways to carbon neutrality: focusing on decarbonisation, energy efficiency and socio-economic implications of the transition</a>	RIA	5	13-dec-22	18-avr-23
<a href="#">HORIZON-CL5-2023-D1-02-02: EU-China international cooperation on blue carbon</a>	RIA	5		
<b>Sciences climatiques et réponses 2024</b>				

HORIZON-CL5-2024-D1-01-01: Enhanced quantification and understanding of natural and anthropogenic methane emissions and sinks	RIA	15	12-sept-23	05-mars-24
HORIZON-CL5-2024-D1-01-02: Inland ice, including snow cover, glaciers, ice sheets and permafrost, and their interaction with climate change	RIA	22		
HORIZON-CL5-2024-D1-01-03: Paleoclimate science for a better understanding of the short- to long-term evolution of the Earth system	RIA	15		
HORIZON-CL5-2024-D1-01-04: Improved toolbox for evaluating the climate and environmental impacts of trade policies	RIA	12		
HORIZON-CL5-2024-D1-01-05: Next generation low-emission, climate-resilient pathways and NDCs for a future aligned with the Paris Agreement	RIA	14		
HORIZON-CL5-2024-D1-01-06: The role of climate change foresight for primary and secondary raw materials supply	RIA	5		
HORIZON-CL5-2024-D1-01-07: Quantification of the role of key terrestrial ecosystems in the carbon cycle and related climate effects	RIA	20		



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**Climat, Mobilité, Energie**

**Destination - Solutions transsectorielles pour la transition climatique**

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
<b>Solutions transsectorielles pour la transition climatique 2023</b>				
<a href="#">HORIZON-CL5-2023-D2-01-01: Technologies for sustainable, cost-efficient and low carbon footprint downstream processing &amp; production of battery-grade materials (Batt4EU Partnership)</a>	RIA	21	13-dec-22	18-avr-23
<a href="#">HORIZON-CL5-2023-D2-01-02: New processes for upcoming recycling feeds (Batt4EU Partnership)</a>	RIA	15		
<a href="#">HORIZON-CL5-2023-D2-01-03: Advanced digital twins for battery cell production lines (Batt4EU Partnership)</a>	RIA	14		
<a href="#">HORIZON-CL5-2023-D2-01-04: Battery management system (BMS) and battery system design for stationary energy storage systems (ESS) to improve interoperability and facilitate the integration of second life batteries (Batt4EU Partnership)</a>	IA	15		
<a href="#">HORIZON-CL5-2023-D2-01-05: Hybrid electric energy storage solutions for grid support and charging infrastructure (Batt4EU Partnership)</a>	IA	12		
<a href="#">HORIZON-CL5-2023-D2-01-06: Open Pilot Line/Test Bed for hydrogen</a>	IA	10		
<a href="#">HORIZON-CL5-2023-D2-01-07: Support for the deployment of R&amp;I results for climate mitigation. Synergies with the ETS Innovation Fund</a>	CSA	4		
<a href="#">HORIZON-CL5-2023-D2-01-08: Driving Urban Transition Co-funded Partnership</a>	COFUND	20,7		
<b>Solutions transsectorielles pour la transition climatique 2023</b>				
<a href="#">HORIZON-CL5-2023-D2-02-01: Advanced materials and cells development enabling large-scale production of Gen4 solid-state batteries for mobility applications (Batt4EU Partnership)</a>	IA	24	04-mai-23	05-sept-23
<a href="#">HORIZON-CL5-2023-D2-02-02: New Approaches to Develop Enhanced Safety Materials for Gen 3 Li-Ion Batteries for Mobility Applications (Batt4EU Partnership)</a>	RIA	10		
<a href="#">HORIZON-CL5-2023-D2-02-03: Creating a digital passport to track battery materials, optimize battery performance and life, validate recycling, and promote a new business model based on data sharing (Batt4EU Partnership)</a>	IA	8		
<b>Solutions transsectorielles pour la transition climatique 2024</b>				

<a href="#">HORIZON-CL5-2024-D2-01-01: Advanced sustainable and safe pre-processing technologies for End-of-Life (EoL) battery recycling (Batt4EU Partnership)</a>	RIA	21	7-dec-23	18-avr-24
<a href="#">HORIZON-CL5-2024-D2-01-02: Non-Li Sustainable Batteries with European Supply Chains for Stationary Storage (Batt4EU Partnership)</a>	IA	21		
<a href="#">HORIZON-CL5-2024-D2-01-03: Development of technical and business solutions to optimise the circularity, resilience, and sustainability of the European battery value chain (Batt4EU Partnership)</a>	RIA	5		
<a href="#">HORIZON-CL5-2024-D2-01-04: Emerging energy technologies for a climate neutral Europe</a>	RIA	10		
<b>Solutions transsectorielles pour la transition climatique 2024</b>				
<a href="#">HORIZON-CL5-2024-D2-02-01: Sustainable high-throughput production processes for stable lithium metal anodes for next generation batteries (Batt4EU Partnership)</a>	IA	8	07-mai-24	05-sept-24
<a href="#">HORIZON-CL5-2024-D2-02-02: Post-Li-ion technologies and relevant manufacturing techniques for mobility applications (Generation 5) (Batt4EU Partnership)</a>	RIA	15		
<a href="#">HORIZON-CL5-2024-D2-02-03: Size &amp; weight reduction of cell and packaging of batteries system, integrating lightweight and functional materials, innovative thermal management and safe and sustainable by design approach (Batt4EU Partnership)</a>	IA	16		
<a href="#">HORIZON-CL5-2024-D2-02-04: Accelerated multi-physical and virtual testing for battery aging, reliability and safety evaluation (Batt4EU Partnership)</a>	IA	15		



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**Climat, Mobilité, Energie**

**Destination - Offre d'énergie durable, sûre et compétitive**

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
<b>Offre d'énergie durable, sûre et compétitive 2023</b>				
<a href="#">HORIZON-CL5-2023-D3-01-01: Renewable Energy Valleys to increase energy security while accelerating the green transition in Europe</a>	IA	40	13-dec-22	30-mars-23
<a href="#">HORIZON-CL5-2023-D3-01-02: PV integration in buildings and in infrastructure</a>	IA	16		
<a href="#">HORIZON-CL5-2023-D3-01-03: Floating PV Systems</a>	IA	14		
<a href="#">HORIZON-CL5-2023-D3-01-04: Solar Systems for Industrial Process Heat and Power</a>	IA	14		
<a href="#">HORIZON-CL5-2023-D3-01-05: Critical technologies for the offshore wind farm of the Future</a>	CSA	18		
<a href="#">HORIZON-CL5-2023-D3-01-06: Demonstration of advanced biofuel technologies for aviation and/or shipping</a>	IA	18		
<a href="#">HORIZON-CL5-2023-D3-01-07: Demonstration of synthetic renewable fuel for aviation and/or shipping</a>	IA	18		
<a href="#">HORIZON-CL5-2023-D3-01-08: Demonstration of sustainable tidal energy farms</a>	IA	40		
<a href="#">HORIZON-CL5-2023-D3-01-09: Waste heat reutilisation from data centres</a>	IA	12		
<a href="#">HORIZON-CL5-2023-D3-01-10: Supporting the development of a digital twin to improve management, operations and resilience of the EU Electricity System in support to REPowerEU</a>	IA	20		
<a href="#">HORIZON-CL5-2023-D3-01-11: Demonstration of DC powered data centres, buildings, industries and ports</a>	IA	18		
<a href="#">HORIZON-CL5-2023-D3-01-12: Development of MVDC, HVDC and High-Power Transmission systems and components for a resilient grid</a>	IA	22		
<a href="#">HORIZON-CL5-2023-D3-01-13: Development of novel long-term electricity storage technologies</a>	RIA	14		
<a href="#">HORIZON-CL5-2023-D3-01-14: Demonstration of innovative, large-scale, seasonal heat and/or cooling storage technologies for decarbonisation and security of supply</a>	IA	30		
<a href="#">HORIZON-CL5-2023-D3-01-15: Supporting the green and digital transformation of the energy ecosystem and enhancing its resilience through the development and piloting of AI-IoT Edge-cloud and platform solutions</a>	IA	18		

<a href="#">HORIZON-CL5-2023-D3-01-16: Support action to the SET Plan IWG on HVDC &amp; DC Technologies</a>	CSA	0,6	13-dec-22	30-mars-23
<a href="#">HORIZON-CL5-2023-D3-01-17: Development of CO2 transport and storage demo projects</a>	IA	40		
<a href="#">HORIZON-CL5-2023-D3-01-18: Clean Energy Transition Co-funded Partnership</a>	COFUND	45		
<b>Offre d'énergie durable, sûre et compétitive 2023</b>				
<a href="#">HORIZON-CL5-2023-D3-02-01: Development of near zero-emission biomass heat and/or CHP including carbon capture</a>	RIA	8	04-mai-23	05-sept-23
<a href="#">HORIZON-CL5-2023-D3-02-02: Novel thermal energy storage for CSP</a>	RIA	5		
<a href="#">HORIZON-CL5-2023-D3-02-03: Industrial manufacturing for lower-cost solar thermal components and systems</a>	IA	6		
<a href="#">HORIZON-CL5-2023-D3-02-04: Innovative components and configurations for heat pumps</a>	RIA	6		
<a href="#">HORIZON-CL5-2023-D3-02-05: Advanced exploration technologies for geothermal resources in a wide range of geological settings</a>	RIA	8		
<a href="#">HORIZON-CL5-2023-D3-02-06: Smart use of geothermal electricity and heating and cooling in the energy system</a>	IA	15		
<a href="#">HORIZON-CL5-2023-D3-02-07: Development of next generation advanced biofuel technologies</a>	RIA	12		
<a href="#">HORIZON-CL5-2023-D3-02-08: Development of microalgae and/or direct solar fuel production and purification technologies for advanced aviation and /or shipping fuels</a>	RIA	8		
<a href="#">HORIZON-CL5-2023-D3-02-09: Demonstration of sustainable hydropower refurbishment</a>	IA	8		
<a href="#">HORIZON-CL5-2023-D3-02-10: Development of innovative power take-off and control systems for wave energy devices</a>	RIA	8		
<a href="#">HORIZON-CL5-2023-D3-02-11: Advanced concepts for crystalline Silicon technology</a>	RIA	9		
<a href="#">HORIZON-CL5-2023-D3-02-12: Large Area Perovskite solar cells and modules</a>	IA	14		
<a href="#">HORIZON-CL5-2023-D3-02-13: Operation, Performance and Maintenance of PV Systems</a>	IA	10		
<a href="#">HORIZON-CL5-2023-D3-02-14: Digital twin for forecasting of power production to wind energy demand</a>	RIA	12		
<a href="#">HORIZON-CL5-2023-D3-02-15: Critical technologies to improve the lifetime, efficient decommissioning and increase the circularity of offshore and onshore wind energy systems</a>	RIA	12		
<a href="#">HORIZON-CL5-2023-D3-02-16: Accelerating the green transition and energy access in Africa</a>	IA	20		
<b>Offre d'énergie durable, sûre et compétitive 2023</b>				



<a href="#">HORIZON-CL5-2023-D3-03-01: Increasing the efficiency of innovative static energy conversion devices for electricity and heat/cold generation</a>	RIA	9	04-mai-23	10-oct-23
<a href="#">HORIZON-CL5-2023-D3-03-02: Integration of renewable gases, other than hydrogen or methane, and which have not access to gas grids and interfacing with electricity and heat sectors</a>	IA	12		
<a href="#">HORIZON-CL5-2023-D3-03-03: System approach for grid planning and upgrade in support of a dominant electric mobility (vehicles and vessels) using AI tools</a>	IA	11		
<a href="#">HORIZON-CL5-2023-D3-03-04: Digital tools for enhancing the uptake of digital services in the energy market</a>	IA	11		
<a href="#">ORIZON-CL5-2023-D3-03-05: Creation of a standardised and open-source peer-to-peer energy sharing platform architecture for the energy sector</a>	IA	5		
<a href="#">HORIZON-CL5-2023-D3-03-06: Components and interfacing for AC &amp; DC side protection system – AC &amp; DC grid: components and systems for grid optimisation</a>	IA	10		
<b>Offre d'énergie durable, sûre et compétitive 2024</b>				
<a href="#">HORIZON-CL5-2024-D3-01-01: Alternative equipment and processes for advanced manufacturing of PV technologies</a>	IA	24	12-sept-23	16-janv-24
<a href="#">HORIZON-CL5-2024-D3-01-02: Low-power PV</a>	IA	6		
<a href="#">HORIZON-CL5-2024-D3-01-03: Demonstration of improved intermediate renewable energy carrier technologies for transport fuels</a>	IA	20		
<a href="#">HORIZON-CL5-2024-D3-01-04: Improvement of light harvesting and carbon fixation with synthetic biology and/or bio-inspired//biomimetic pathways for renewable direct solar fuels production</a>	RIA	8		
<a href="#">HORIZON-CL5-2024-D3-01-05: Development of carbon fixation technologies for biogenic flue gases</a>	RIA	8		
<a href="#">HORIZON-CL5-2024-D3-01-06: Innovative applications/integration of geothermal heating and cooling in industry</a>	RIA	9		
<a href="#">HORIZON-CL5-2024-D3-01-07: Development of hydropower equipment for improving techno-economic efficiency and equipment resilience in refurbishment situations</a>	RIA	8		
<a href="#">HORIZON-CL5-2024-D3-01-08: Demonstration of sustainable wave energy farms</a>	IA	38		
<a href="#">HORIZON-CL5-2024-D3-01-09: Africa-EU CO-FUND action</a>	COFUND	10		
<a href="#">HORIZON-CL5-2024-D3-01-10: Next generation of renewable energy technologies</a>	RIA	27		
<a href="#">HORIZON-CL5-2024-D3-01-11: AI Testing and Experimentation Facility (TEF) for the energy sector – bringing technology to the market</a>	IA	16		

<a href="#">HORIZON-CL5-2024-D3-01-12: Energy Management Systems for flexibility services</a>	IA	10	12-sept-23	16-janv-24
<a href="#">HORIZON-CL5-2024-D3-01-13: DC and AC/DC hybrid transmission and distribution systems</a>	RIA	13		
<a href="#">HORIZON-CL5-2024-D3-01-14: Condition &amp; Health Monitoring in Power Electronics (PE) - Wide Band Gap PE for the energy sector</a>	RIA	13		
<a href="#">HORIZON-CL5-2024-D3-01-15: HVAC, HVDC and High-Power cable systems</a>	RIA	16		
<a href="#">HORIZON-CL5-2024-D3-01-16: Demonstration of innovative pumped storage equipment and tools in combination with innovative storage management systems</a>	IA	8		
<a href="#">HORIZON-CL5-2024-D3-01-17: Development and integration of advanced software tools in SCADA systems for High, Medium and Low voltage AC/DC hybrid systems</a>	IA	12		
<b>Offre d'énergie durable, sûre et compétitive 2024</b>				
<a href="#">HORIZON-CL5-2024-D3-02-01: Digital tools for CSP and solar thermal plants</a>	IA	6	07-mai-24	05-sept-24
<a href="#">HORIZON-CL5-2024-D3-02-02: Development of next generation synthetic renewable fuel technologies</a>	RIA	12		
<a href="#">HORIZON-CL5-2024-D3-02-03: Development of smart concepts of integrated energy driven bio-refineries for co-production of advanced biofuels, bio-chemicals and biomaterials</a>	RIA	7		
<a href="#">HORIZON-CL5-2024-D3-02-04: Critical technologies for the future ocean energy farms</a>	RIA	8		
<a href="#">HORIZON-CL5-2024-D3-02-05: PV-integrated electric mobility applications</a>	IA	14		
<a href="#">HORIZON-CL5-2024-D3-02-06: Innovative, Community-Integrated PV systems</a>	IA	10		
<a href="#">HORIZON-CL5-2024-D3-02-07: Resource Efficiency of PV in Production, Use and Disposal</a>	CSA	3		
<a href="#">HORIZON-CL5-2024-D3-02-08: Minimisation of environmental, and optimisation of socio-economic impacts in the deployment, operation and decommissioning of offshore wind farms</a>	RIA	10		
<a href="#">HORIZON-CL5-2024-D3-02-09: Demonstrations of innovative floating wind concepts</a>	IA	30		
<a href="#">HORIZON-CL5-2024-D3-02-10: Market Uptake Measures of renewable energy systems</a>	CSA	8		
<a href="#">HORIZON-CL5-2024-D3-02-11: CCU for the production of fuels</a>	IA	15		
<a href="#">HORIZON-CL5-2024-D3-02-12: DACCS and BECCS for CO2 removal/negative emissions</a>	IA	15		



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**Climat, Mobilité, Energie**

**Destination - Utilisation de l'énergie efficiente, durable et inclusive**

<b>Titre</b>	<b>Type</b>	<b>Budget (M€)</b>	<b>Date d'ouverture</b>	<b>Date limite</b>
<b>Utilisation de l'énergie efficiente, durable et inclusive 2023</b>				
<a href="#">HORIZON-CL5-2023-D4-01-01: Innovative cost-efficient solutions for zero-emission buildings</a>	IA	10	13-dec-22	20-avr-23
<a href="#">HORIZON-CL5-2023-D4-01-02: Future-proofing historical buildings for the clean energy transition</a>	RIA	9		
<a href="#">HORIZON-CL5-2023-D4-01-03: Interoperable solutions for positive energy districts (PEDs), including a better integration of local renewables and local excess heat sources</a>	IA	8		
<a href="#">HORIZON-CL5-2023-D4-01-04: Thermal management and energy optimisation of high energy demand IT systems equipment in tertiary buildings</a>	RIA	6		
<a href="#">HORIZON-CL5-2023-D4-01-05: Innovative solutions for cost-effective decarbonisation of buildings through energy efficiency and electrification</a>	IA	25		
<a href="#">HORIZON-CL5-2023-D4-01-06: Integration of renewable heat or industrial waste heat in heat-to-cold conversion systems to generate cold for industrial processes</a>	IA	20		
<b>Utilisation de l'énergie efficiente, durable et inclusive 2023</b>				
<a href="#">HORIZON-CL5-2023-D4-02-01: Innovative uses of lifecycle data for the management of buildings and buildings portfolios (Built4People Partnership)</a>	IA	10	04-mai-23	05-sept-23
<a href="#">HORIZON-CL5-2023-D4-02-02: Solutions for the identification of vulnerable buildings and people-centric built environment, and for improving their resilience in disruptive events and altered conditions in a changing climate (Built4People Partnership)</a>	IA	10		
<a href="#">HORIZON-CL5-2023-D4-02-03: Demonstrate built-environment decarbonisation pathways through bottom-up technological, social and policy innovation for adaptive integrated sustainable renovation solutions (Built4People Partnership)</a>	IA	12		
<a href="#">HORIZON-CL5-2023-D4-02-04: Fast-tracking and promoting built environment construction and renovation innovation with local value chains (Built4People Partnership)</a>	CSA	2		
<a href="#">HORIZON-CL5-2023-D4-02-05: Supporting the creation of an accessible and inclusive built environment (Built4People Partnership)</a>	IA	10		

Utilisation de l'énergie efficace, durable et inclusive 2024				
<a href="#">HORIZON-CL5-2024-D4-01-01: Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings</a>	IA	10	7-dec-23	18-avr-24
<a href="#">HORIZON-CL5-2024-D4-01-02: Smart grid-ready buildings</a>	IA	10		
<a href="#">HORIZON-CL5-2024-D4-01-03: Alternative heating systems for efficient, flexible and electrified heat generation in industry</a>	IA	16		
Utilisation de l'énergie efficace, durable et inclusive 2024				
<a href="#">HORIZON-CL5-2024-D4-02-01: Industrialisation of sustainable and circular deep renovation workflows (Built4People Partnership)</a>	IA	16	07-mai-24	05-sept-24
<a href="#">HORIZON-CL5-2024-D4-02-02: Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment (Built4People Partnership)</a>	RIA	8		
<a href="#">HORIZON-CL5-2024-D4-02-03: BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)</a>	IA	8		
<a href="#">HORIZON-CL5-2024-D4-02-04: Design for adaptability, re-use and deconstruction of buildings, in line with the principles of circular economy (Built4People Partnership)</a>	RIA	8		
<a href="#">HORIZON-CL5-2024-D4-02-05: Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)</a>	IA	10		

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**Destination - Solutions propres et compétitives pour tous les modes de transport**

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
<b>Solutions propres et compétitives pour tous les modes de transport 2023</b>				
<a href="#">HORIZON-CL5-2023-D5-01-01: User-centric design and operation of EV for optimized energy efficiency (2ZERO Partnership)</a>	IA	15	13-dec-22	20-avr-23
<a href="#">HORIZON-CL5-2023-D5-01-02: Innovative battery management systems for next generation vehicles (2ZERO &amp; Batt4EU Partnership)</a>	IA	10		
<a href="#">HORIZON-CL5-2023-D5-01-03: Frugal zero-emission vehicles concepts for the urban passenger challenge (2ZERO Partnership)</a>	IA	20		
<a href="#">HORIZON-CL5-2023-D5-01-04: Circular economy approaches for zero emission vehicles (2ZERO Partnership)</a>	RIA	12		
<a href="#">HORIZON-CL5-2023-D5-01-05: Measuring road transport results towards 2ZERO KPIs (2ZERO Partnership)</a>	CSA	1		
<a href="#">HORIZON-CL5-2023-D5-01-06: EU Member States/Associated countries research policy cooperation network to accelerate zero-emission road mobility (2ZERO Partnership)</a>	CSA	1,5		
<a href="#">HORIZON-CL5-2023-D5-01-07: Hydrogen-powered aviation</a>	IA	20		
<a href="#">HORIZON-CL5-2023-D5-01-08: Accelerating climate-neutral hydrogen-powered/electrified aviation</a>	RIA	17		
<a href="#">HORIZON-CL5-2023-D5-01-09: Competitiveness and digital transformation in aviation – advancing further capabilities, digital approach to design</a>	RIA	15		
<a href="#">HORIZON-CL5-2023-D5-01-10: Aviation research synergies between Horizon Europe, AZEA and National programs</a>	CSA	2		
<a href="#">HORIZON-CL5-2023-D5-01-11: Developing the next generation of power conversion technologies for sustainable alternative carbon neutral fuels in waterborne applications (ZEWT Partnership)</a>	RIA	16		
<a href="#">HORIZON-CL5-2023-D5-01-12: Demonstrations to accelerate the switch to safe use of new sustainable climate neutral fuels in waterborne transport (ZEWT Partnership)</a>	IA	34		

<a href="#">HORIZON-CL5-2023-D5-01-13: Integrated real-time digital solutions to optimise navigation and port calls to reduce emissions from shipping (ZEWT Partnership)</a>	IA	15	13-dec-22	20-avr-23
<a href="#">HORIZON-CL5-2023-D5-01-14: Developing a flexible offshore supply of zero emission auxiliary power for ships moored or anchored at sea deployable before 2030 (ZEWT Partnership)</a>	IA	8,5		
<a href="#">HORIZON-CL5-2023-D5-01-15: Reducing the environmental impact from shipyards and developing a whole life strategy to measure and minimise the non-operational environmental impacts from shipping</a>	IA	9		
<a href="#">HORIZON-CL5-2023-D5-01-16: Developing small, flexible, zero-emission and automated vessels to support shifting cargo from road to sustainable Waterborne Transport</a>	RIA	9		
<a href="#">HORIZON-CL5-2023-D5-01-17: Towards the implementation of the inland navigation action programme with a focus on Green and Connected Inland Waterway Transport</a>	CSA	1,5		
<a href="#">HORIZON-CL5-2023-D5-01-18: Advanced transport emissions monitoring networks</a>	IA	10		
<a href="#">HORIZON-CL5-2023-D5-01-19: Support for the organisation of EU-US symposia in the field of Transport Research</a>	CSA	0,5		

**Solutions propres et compétitives pour tous les modes de transport 2024**

<a href="#">HORIZON-CL5-2024-D5-01-01: Smart, low-cost pervasive stationary slow charging and bi-directional solutions synergic with the grid for EV mass deployment (2ZERO Partnership)</a>	IA	15	7-dec-23	18-avr-24
<a href="#">HORIZON-CL5-2024-D5-01-02: Integration and testing of next generation post-800V electric powertrains (2ZERO Partnership)</a>	RIA	15		
<a href="#">HORIZON-CL5-2024-D5-01-03: Advanced battery system integration for next generation vehicles (2ZERO Partnership)</a>	RIA	10		
<a href="#">HORIZON-CL5-2024-D5-01-04: Integrated flexible multipoint megawatt charging systems for electric truck mass deployment (2ZERO Partnership) (2024)</a>	IA	17		
<a href="#">HORIZON-CL5-2024-D5-01-05: Advanced digital development tools to accelerate the development of software defined vehicles that enable zero-emission mobility (2ZERO Partnership)</a>	RIA	10		
<a href="#">HORIZON-CL5-2024-D5-01-06: New designs, shapes, functionalities of Light Commercial Vehicles (2ZERO Partnership)</a>	IA	10		
<a href="#">RIZON-CL5-2024-D5-01-07: Accelerating climate neutral aviation, minimising non-CO2 emissions</a>	RIA	17		
<a href="#">HORIZON-CL5-2024-D5-01-08: Competitiveness and digital transformation in aviation – advancing further composite aerostructures</a>	RIA	16		

<a href="#">HORIZON-CL5-2024-D5-01-09: Impact monitoring of EU Aviation R&amp;I</a>	RIA	8	7-dec-23	18-avr-24
<a href="#">HORIZON-CL5-2024-D5-01-10: Towards a flying testbed for European leadership in aviation</a>	RIA	16		
<a href="#">HORIZON-CL5-2024-D5-01-11: Achieving high voltage, low weight, efficient electric powertrains for sustainable waterborne transport (ZEWT Partnership)</a>	RIA	15		
<a href="#">HORIZON-CL5-2024-D5-01-12: Combining state-of-the-art emission reduction and efficiency improvement technologies in ship design and retrofitting for contributing to the "Fit for 55" package objective by 2030 (ZEWT Partnership)</a>	IA	15		
<a href="#">HORIZON-CL5-2024-D5-01-13: Demonstration of Technologies to minimise underwater noise generated by waterborne transport (ZEWT Partnership)</a>	IA	6		
<a href="#">HORIZON-CL5-2024-D5-01-14: Demonstrating efficient fully DC electric grids within waterborne transport for large ship applications (ZEWT Partnership)</a>	IA	15		
<a href="#">HORIZON-CL5-2024-D5-01-15: Advanced digitalisation and modelling utilizing operational and other data to support zero emission waterborne transport (ZEWT Partnership)</a>	RIA	7,7		
<a href="#">HORIZON-CL5-2024-D5-01-16: Structuring the Waterborne transport sector, including through changed business and industrial models in order to achieve commercial zero-emission waterborne transport (ZEWT Partnership)</a>	RIA	0,85		
<a href="#">HORIZON-CL5-2024-D5-01-17: Coordinating and supporting the combined activities of member and associated states towards the objectives of the Zero Emission Waterborne Transport partnership so as to increase synergies and impact (ZEWT Partnership)</a>	RIA	1,5		
<a href="#">HORIZON-CL5-2024-D5-01-18: Assessment of air pollutant emissions from low-carbon fuels in the heavy-duty, aviation, and maritime sectors</a>	RIA	7		

## Appels à propositions dans le cadre du programme européen pour la recherche et l'innovation « HORIZON EUROPE »

### Climat, Mobilité, Energie

#### Destination - Transport résilient et sûr et services de mobilité intelligente pour les passagers et les biens

Titre	Type	Budget (M€)	Date d'ouverture	Date limite
<b>Transport résilient et sûr et services de mobilité intelligente pour les passagers et les biens 2023</b>				
HORIZON-CL5-2023-D6-01-01: User-centric development of vehicle technologies and solutions to optimise the on-board experience and ensure inclusiveness (CCAM Partnership)	RIA	8	04-mai-23	05-sept-23
HORIZON-CL5-2023-D6-01-02: Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)	RIA	20		
HORIZON-CL5-2023-D6-01-03: Infrastructure-enabled solutions for improving the continuity or extension of Operational Design Domains (ODDs) (CCAM Partnership)	IA	12		
HORIZON-CL5-2023-D6-01-04: Integrating European diversity in the design, development and implementation of CCAM solutions to support mobility equity (CCAM Partnership)	RIA	8		
HORIZON-CL5-2023-D6-01-05: CCAM effects on jobs and education, plans for skills that match the CCAM development, and prerequisites for employment growth (CCAM Partnership)	RIA	2		
HORIZON-CL5-2023-D6-01-06: Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities	RIA	6		
HORIZON-CL5-2023-D6-01-07: Operational automation to support multimodal freight transport	RIA	8		
HORIZON-CL5-2023-D6-01-08: Future-proof GHG and environmental emissions factors for accounting emissions from transport and logistics operations	CSA	3		
HORIZON-CL5-2023-D6-01-09: Climate resilient and safe maritime ports	IA	14		
HORIZON-CL5-2023-D6-01-10: Better infrastructure safety on urban and secondary rural roads throughout a combination of adaptable monitoring and maintenance solutions	RIA	10		
HORIZON-CL5-2023-D6-01-11: Aviation safety - Uncertainty quantification for safety and risk management	RIA	8		



HORIZON-CL5-2023-D6-01-12: New ways of reducing serious injuries and the long-term consequences of road crashes	RIA	8	04-mai-23	05-sept-23
HORIZON-CL5-2023-D6-01-13: Support for dissemination events in the field of Transport Research	CSA	1,5		
<b>Transport résilient et sûr et services de mobilité intelligente pour les passagers et les biens 2023</b>				
HORIZON-CL5-2024-D6-01-01: Centralised, reliable, cyber-secure & upgradable in-vehicle electronic control architectures for CCAM connected to the cloud-edge continuum (CCAM Partnership)	RIA	12	07-mai-24	05-sept-24
HORIZON-CL5-2024-D6-01-02: Scenario-based safety assurance of CCAM and related HMI in a dynamically evolving transport system (CCAM Partnership)	RIA	14		
HORIZON-CL5-2024-D6-01-03: Orchestration of heterogeneous actors in mixed traffic within the CCAM ecosystem (CCAM Partnership)	IA	12		
HORIZON-CL5-2024-D6-01-04: AI for advanced and collective perception and decision making for CCAM applications (CCAM Partnership)	RIA	10		
HORIZON-CL5-2024-D6-01-05: Robust Knowledge and Know-How transfer for Key Deployment Pathways and implementation of the EU-CEM (CCAM Partne	CSA	4		
HORIZON-CL5-2024-D6-01-06: Optimising multimodal network and traffic management, harnessing data from infrastructures, mobility of passengers and freight transport	RIA	10		
HORIZON-CL5-2024-D6-01-07: Scaling up logistics innovations supporting freight transport decarbonisation in an affordable way	IA	20		
HORIZON-CL5-2024-D6-01-08: Improved transport infrastructure performance – Innovative digital tools and solutions to monitor and improve the management and operation of transport infrastructure	IA	15		
HORIZON-CL5-2024-D6-01-09: Policies and governance shaping the future transport and mobility systems	RIA	3		
HORIZON-CL5-2024-D6-01-10: Ensuring the safety, resilience and security of waterborne digital systems	RIA	8,5		
HORIZON-CL5-2024-D6-01-11: Effects of disruptive changes in transport: towards resilient, safe and energy efficient mobility	RIA	7		
HORIZON-CL5-2024-D6-01-12: A new framework to improve traffic safety culture in the EU	RIA	7		